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WE CLAIM:

1. A use of an effective amount of an agent that inhibits porcine fgl2 to inhibit or suppress an immune response to a porcine organ or tissue.
- 5 2. A use of an effective amount of an agent that inhibits porcine fgl2 to inhibit or prevent thrombosis associated with xenotransplant rejection of a porcine organ or tissue.
- 10 3. A use according to claim 1 or 2 wherein the agent is an antibody that binds to porcine fgl2.
4. A use according to claim 1 or 2 wherein the agent is an antisense oligonucleotide that is complementary to the porcine fgl2 sequence.
- 15 5. A use according to any one of claims 1 to 4 wherein the agent inhibits the porcine fgl2 having a nucleic acid sequence shown in Figure 1A (SEQ ID NO:1) or a homolog or analog thereof or inhibits a porcine fgl2 protein having an amino acid sequence shown in Figure 1B (SEQ ID NO:2) or an analog,
20 homolog or fragment thereof.
6. A use of an organ or tissue from a transgenic pig lacking expression of the porcine fgl2 gene in a xenotransplant.
- 25 7. A use of an effective amount of a porcine fgl2 nucleic acid sequence, a porcine fgl2 protein or a porcine fgl2 modulator to modulate an immune response.
8. A use according to claim 7 to modulate an immune response
30 involved in graft rejection.
9. A use according to claim 7 to modulate an immune response involved in fetal loss.

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10. A use according to claim 7 to modulate an immune response involved in a viral infection.
- 5 11. A use according to claim 7 to modulate an immune response involved in a hepatitis-like disease.
12. A use according to any one of claims 7 to 11 wherein the porcine fgl2 has the nucleic acid sequence shown in Figure 1A (SEQ ID NO:1) or a homolog or analog thereof or an amino acid sequence shown in Figure 1B (SEQ ID NO:2) or an analog, homolog or fragment thereof.
- 10 13. A use according to any one of claims 7 to 11 wherein the porcine fgl2 modulator is an antibody that binds to fgl2.
- 15 14. A use according to any one of claims 7 to 11 wherein the porcine fgl2 modulator is an antisense oligonucleotide that is complementary to the porcine fgl2 sequence.
- 20 15. An isolated porcine fgl2 nucleic acid molecule having a nucleic acid sequence shown in Figure 1A (SEQ ID NO:1) or a homolog or analog thereof.
16. An isolated porcine fgl2 nucleic acid molecule according to claim 1 or 2 wherein the nucleic acid sequence comprises:
- 25 (a) a nucleic acid sequence as shown in Figure 1A (SEQ ID NO:1), wherein T can also be U;
- (b) a nucleic acid sequence that is complimentary to a nucleic acid sequence of (a);
- (c) a nucleic acid sequence that has substantial sequence homology to a nucleic acid sequence of (a) or (b);
- 30 (d) a nucleic acid sequence that is an analog of a nucleic acid sequence of (a), (b) or (c); or

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(e) a nucleic acid sequence that hybridizes to a nucleic acid sequence of (a), (b), (c) or (d) under stringent hybridization conditions.

17. An isolated porcine fgl2 protein having an amino acid sequence
5 shown in Figure 1B (SEQ ID NO:2) or an analog, homolog or fragment thereof.

18. An antibody that binds to an isolated protein according to claim 17.

19. An antisense oligonucleotide that is complementary to the porcine
10 fgl2 sequence of claim 15 or 16.